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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\
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-                                     -
- Download the complete N&O newsletter from the N&O web site -
- http://home.luna.nl/~ary/ -
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ //////////////////////////////////////////////////
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- ::: N&O #73, May 2004 ::: -

"This transmission by authority of Papa Oscar Tango Uniform Siera. The Potomac River is at high tide." A new numbers station? A FEMA exercise? Nope, it was a prankster. Read all about it the fun section.

I would like to thank the following contributors for their valuable reports: Tomonori, Takashi, Al, Chris, Eric, Aquila, Richard, Maciej, Jim, JC5, Alf, Tony, Fritz, Leif, Brian via E2K, Dekka, Sergey, Tom, Jochen, Attu, DARC Bandwacht, IARU-MS, Japan Ute Monitor and several other dxers who prefer to remain anonymous. As always, much appreciated!

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* VOICE STATIONS *

::: E03

Lincolnshire Poacher IDs compiled by AI.

IDs used in the first half of the month.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	23790	23790	23790	23790	23790	23790	23790	1200
1300	24778	24778	24778	24778	24778	24778	24778	1300
1400	10907	51452	50898	77876	23790	17345	85087	1400
1500	85087	10907	51452	50898	77876	23790	47977	1500
1600	47977	85087	10907	51452	50898	77876	17345	1600
1700	17345	47977	85087	10907	51452	50898	23790	1700
1800	23790	17345	47977	85087	10907	51452	77876	1800
1900	77876	24778	17345	24778	85087	10907	24778	1900
2000	24778	23790	24778	47977	24778	85087	50898	2000
2100	50898	77876	23790	17345	47977	24778	51452	2100
2200	51452	50898	77876	23790	17345	47977	10907	2200

IDs used in the second half of the month.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	20494	20494	20494	20494	20494	20494	20494	1200
1300	24778	24778	24778	24778	24778	24778	24778	1300
1400	35873	62909	86197	18258	20494	17368	40709	1400
1500	40709	35873	62909	86197	18258	20494	65873	1500
1600	65873	40709	35873	62909	86197	18258	17368	1600
1700	17368	65873	40709	35873	62909	86197	20494	1700
1800	20494	17368	65873	40709	35873	62909	18258	1800
1900	18258	24778	17368	24778	40709	35873	24778	1900
2000	24778	20494	24778	65873	24778	40709	86197	2000
2100	86197	18258	20494	17368	65873	24778	62909	2100
2200	62909	86197	18258	20494	17368	65873	35873	2200

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::: E04

Cherry Ripe's schedules:

UTC	Frequencies
----	-----
1000	20474 // 23461 kHz
1100	18864 // 23461 kHz
1200	18864 // 23461 kHz
1300	18864 // 21866 kHz
1400	18864 // 20707 kHz *)
2200	18864 // 24644 kHz
2300	18864 // 21866 kHz
0000	18864 // 21866 kHz
0100	19884 // 21866 kHz

*) The 1400 UTC transmissions have ceased. The last reports are from December 2002.

Takashi logged Cherry Ripe on 24-5 at 1309 UTC on 18864//23461 kHz. The transmission on 23461 kHz stopped abruptly at 1310 UTC. I guess that they discovered that the wrong frequency was being used as 21866 is the fixed frequency for this slot.

Cherry Ripe IDs compiled by Tomonori.
IDs used in the first half of the month.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
1000		04580	49788	02440	27409	50222	1000
1100		49788	02440	27409	50222	04580	1100
1200		02440	27409	50222	04580	08069	1200
1300		27409	50222	04580	08069	98035	1300

2200	50222	04580	08069	98035	04580		2200
2300	04580	08069	98035	04580	49788		2300
0000		08069	98035	04580	49788	02440	0000
0100		98035	04580	49788	02440	27409	0100

Second half of the month:

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
1000		72226	19577	90541	11238	79516	1000
1100		19577	90541	11238	79516	72226	1100
1200		90541	11238	79516	72226	64893	1200
1300		11238	79516	72226	64893	61726	1300
2200	79516	72226	64893	61726	72226		2200
2300	72226	64893	61726	72226	19577		2300
0000		64893	61726	72226	19577	90541	0000
0100		61726	72226	19577	90541	11238	0100

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::: E10

2-5	6912	1854	CI02 and SYN2 mixed
3-5	5170//6930	1905	SYN 92Z52Z1005B55
4-5	5170//6930	1916	SYN A41050700
4-5	6912	1917	CI0 10
5-5	6370	1905	KPA A67T2R2
22-5	4270	2000	PCD 1
22-5	5820	2000	YHF 1
22-5	5091//6912	2150	CI0 K160045P50045
23-5	4648//6912	0125	CI0 K12P8
24-5	4418	1800	FDU M
30-5	4418	1905	FDU 1
31-5	9130	1830	EZI 1

Oldies but goldies, from a new contributor who sent me a bunch of string messages from early 1991 for the E10 collectors. Thanks and welcome to N&O, Richard!

The exact dates and time were not logged, but the frequencies are all there. All were heard in the spring of 1991.

4166 kHz: "CI0 11266073022"
 4168 kHz: "SYN 33"
 4362 kHz: "CI0 L12"
 4362 kHz: "CI0 1R10"
 4362 kHz: "CI0 1R15"
 4362 kHz: "CI0 B33L25"
 4362 kHz: "CI0 D14M12C39"

4362 kHz: "CIO G27H14R19"
4362 kHz: "MIW 2166Z41"
4665 kHz: "VLB 14B11"
4665 kHz: "VLB 19D14"
6747 kHz: "CIO 2"
6747 kHz: "CIO L12"
6747 kHz: "CIO 1R10"
6747 kHz: "CIO 1R15"
6747 kHz: "CIO B33L25"
6747 kHz: "CIO R1439G45" (5 June 1991, 2045 UTC)
6747 kHz: "CIO D141112C39"
6747 kHz: "CIO G27H14R19"
7606 kHz: "VLB 19D14" (23 May 1991, 2045 UTC)
12951 kHz: "VLB 19D14"
14869 kHz: "VLB N3ZI32"

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::: E15

Yet another report that states that E15 was audible throughout April on 14000 kHz at 1700 UTC with call FYP.

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::: G15 and G16

Especially for the collectors..... again from Richard, logs from spring 1991 and one from 1996:

2708 kHz: "PN" 9 Feb 1991, 1800 UTC
3261 kHz: "GK"
3261 kHz: "XL" 4 Feb 1991, 2000 UTC
4595 kHz: "ZF" 4 Feb 1991, 1830 UTC
5015 kHz: "GK"
5015 kHz: "PN" 3 Feb 1991, 1800 UTC
5015 kHz: "YB" 4 Feb 1991, 1930 UTC
5183 kHz: "XL"
5732 kHz: "EL" 17 May 1991, 1900 UTC
5732 kHz: "YS"
5771 kHz: "EL"
6853 kHz: "EL"
7405 kHz: "PN"
10505 kHz: "JW" 27 Jan 1996, 2100 UTC
11108 kHz: "PN"

<<<<<>>>>>

::: S17C

Hans-Friedrich sent us a number of S17C logs, all copied on 6758 kHz at 1250 UTC:

Sun, 2 May: 68032
Mon, 10 May: 58031
Thu, 13 May: 64044
Fri, 14 May: 75039
Sat, 15 May: 72040
Sun, 16 May: 54054 (?)
Tue, 18 May: 63037
Tue, 25 May: 76032
Sun, 30 May: 99032

Laurent noted the station on 9166 kHz at 2130 UTC on 20-5.

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::: V13

New Star Broadcasting is difficult to hear lately but it is still alive and kicking on 8300 and 11430 kHz.

<<<<<>>>>

::: V24

The South Korean station was heard on its usual frequency 6215 kHz AM at 1400 and 1500 UTC.

<<<<<>>>>

::: V25

From China, with love:

YL reading numbers on 8195 at 1300 UTC
8870 at 1300 and 1400 UTC
9239 at 1200 and 1300 UTC
10019 at 1200 and 1500 UTC

V25 uses frequencies 8195, 8870, 9260, 9239, 10019 and 15958 kHz.

<<<<<>>>>

::: V26

Chinese and English numbers on 6448//8621 kHz LSB at 1200 UTC.

V26 uses LSB frequencies 4650, 5924, 6448, 6460, 8621, 9101, 13028 and 16665 kHz.

-0-0-0-0-0-0-0-0-0-0-

★ MORSE STATIONS ★

The morse scene is very much alive as you can see. I have selected a number of stations for you. Check for more logs and frequencies the logs section.

::: M18

M18 has changed frequency from 4073 to 4503 kHz around 5 May and still transmits time strings (UTC+3).

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::: M21

The Russian Air Defense stations were active on a number of frequencies in the past few weeks: 3246.5, 3801, 4391, 5221.5, 5772, 6321.5, 7755, 8701 and 9222 kHz, transmitting its typical strings. The id on all frequencies was "0", except for 8701 where the id was "8".

=992350??0?????
=992312??0?????
=992336??0?????
=990004??0?????
=992332??0?????
=991847??0?????
=4293289322??00
=990146??0?????
=991033??8?????

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::: M22

All frequencies were used throughout the month.

Broadcast 1: 2800//4241//5159//8103//10046//12984 kHz

Broadcast 1: additional frequencies: 10153//13511//13514 kHz,
observed between 26-4 and 15-5.

Broadcast 2: 2680//4331//6379 kHz

Format 1: vvv 4XZ 4XZ ==

```

Format 2: nw QTC 1 nr 497 ==
          nr 497 oj v mi1q 836112 x17y gr 72 ==
          xyxyx 5LG ==
(repetition) nr 497 oj v mi1q 836112 x17y gr 72 ==
          xyxyx 5LG ==
          (ends)
          nr 497 oj v mi1q 836112 x17y gr 72 == ++

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::: M51

Frequencies	date	UTC	samples
-----	----	----	-----
4649.5//5279.5	26-4	1832	
6924//5223	27-4	1450	
7370	28-4	0750	
5063//5206	28-4	1400	
5081.5//7370.5	28-4	1525	
5081.5//7370.5	29-4	0621	
5063//5206	29-4	1920	
5908	30-4	1910	
5223//5894.5	3-5	1440	
4629.5	3-5	1835	
5475	4-5	1442	= nr 69 m 04 16:43:30 2004 = 5LG
5223//5894.5	4-5	1532	= nr 77 m 04 17:32:10 2004 = 5LG
5223//5893	4-5	1850	
5223//5893	5-5	0530	
5475	5-5	1525	
5317//5426	10-5	1445	
10217	10-5	1555	= nr 74 m 10 17:58:33 2004 = 5LG
5317//5426	11-5	1825	
5907	17-5	1530	
5314	18-5	1458	
5401.5	19-5	0645	
5314//5401.5	19-5	1505	
4471	18-5	1509	= nr 50 m 18 17:09:34 2004 = 5LG
4447//4486	20-5	1525	
5262	24-5	1425	= nr 37 m 24 16:26:58 2004 = 5LG
5911	24-5	1525	
5262	25-5	1900	
5262	26-5	0600	

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::: M62

Still active on 3485 although not always audible.

1-5 / 10-5 B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 +
3-5 + 5-5, 0500 UTC: = = QTR 0700
11-5 / 20-5 J7XD J7XD J7XD = D3QK D3QK D3QK +
21-5 / 31-5 QR2U QR2U QR2U = KP6F KP6F KP6F +

<<<<<>>>>>

::: M82

"VVV JVG DE BML" on 4700kHz at 1359 UTC
"VVV JVG DE BML" on 4700kHz at 1300 UTC
in progress on 4700kHz at 1204 UTC

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::: M89

"V CP17 CP17 CP17 DE L9CC L9CC" on 3646.4, 3552.8, 3553.2, 7000, 7038.8,
7056.4, 7058, 7059.3, 7060.2, 7072.8,
7087.1 kHz.

"V BFR7 BFR7 BFR7 DE 4XML 4XML" on 5756.5 kHz.

"V MW3D MW3D MW3D DE 2SLC 2SLC" on 3330//4440, 5580//7074 kHz.

"V GM3Z GM3Z GM3Z DE PNW9 PNW9" on 5631 kHz.

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::: MX

Reported cluster beacons:

P: 7038.8 kHz
S: 10871.9, 13527.9, 16331.9, 20047.9 kHz
F: 5154.2, 7039.2, 8495.2, 10872.2, 13528.2, 16332.2, 20048.2 kHz
K: 5154.3, 7039.3, 8495.3, 10872.3, 13528.3, 16332.3, 20048.3 kHz
M: 5154.4, 7039.4, 8495.4, 10872.4, 13528.4, 16332.4, 20048.4 kHz

Reported channel markers:

P: 3291, 3699.5, 3837, 4031, 4043, 4476, 4828, 5111//5862 kHz
F: 7078.4 kHz (off frequency cluster beacon??)
V: 3658 kHz
L: 3336.2 kHz
R: 4325.8, 5465.8 kHz

-0-0-0-0-0-0-0-0-0-0-

* VARIOUS MODES *

::: NEW XP VARIANT?

Yet another(?) XP variant popped up recently. The id consists of a two-tone signal, transmitted for ca 2 minutes. This is interesting because the id of the other XP stations consists of three tones, each representing the 100 kHz digit of the frequencies that are being used for the transmissions. If the id of this station also would represent the schedule, then it would mean that its schedule is limited to two frequencies. However..... the station uses three frequencies, just like the other ones.

We have no info about its current schedules. The following frequencies were used in the past: 18332, 18247, 17467, 17442, 17413, 16373 kHz. Usual schedule: H00, H15, H30, H45 in various combinations but always on three consecutive times and on different frequencies.

Mode : AM/SSB
Center Frequency: 873 Hz
Tone spacing : 40 Hz
Bandwidth : 755 Hz
Speed : 10 Bd

This variant is using 20 tone frequencies, but for data transmissions only 16.

Tone	Freq in Hz
----	-----
01	495.600
02	537.320
03	575.340
04	615.042
05	656.762
06	694.445
07	734.147
08	773.849
09	813.551
10	853.253
11	893.291
12	932.993
13	974.377
14	1012.397
15	1052.098
16	1091.800

17 1136.212
18 1171.204
19 never used
20 1250.944

There is a sample on the N&O website. Note that the sample has an offset of 1 kHz and the callup was shortened.

It goes without saying that all reports are most welcome.

<<<<<>>>>>

XSW: 3828.9 kHz, Squeaky Wheel
S28: 4625 kHz, Buzzer
S30: 3756 and its harmonic 7512 kHz, Pip
XM: 10373, 10512 kHz. Whales

M42: 6843 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 18 FGs
7914 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 17 FGs
9073 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 18 FGs
9119 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 17 FGs
10467 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 17 FGs
10838 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 17 FGs
12193 kHz, Russian intelligence, BAUDOT 200.33Bd/500Hz, 17 FGs

Jammers: "Havana Gurgle" on 18090 kHz.

Iranian Radar; wide signal (125 Hz) on 14000 kHz. Mode: P0N

-0-0-0-0-0-0-0-0-0-0-

* UNID STATIONS *

::: RUSSIAN NUMBERS STATIONS

I don't know if an Enigma code has been designed to this one.

17640 and 17786 kHz: SVR Moscow, 1100-1130 UTC. CW, 15 wpm,
ANDUWRIGMT cut #s. 5FGs traffic.

Another Russian station was heard on 19 May at 1410 UTC on 16280 kHz.
It was a very strong signal, mode CW. It was only sending for 2 minutes
and the carrier went off after another 30 seconds.

<<<<<>>>>>

::: "2"

Tomonori reports on 12 May that the "2"-station on 10140.5 kHz is being jammed. Shortly after that the station left this frequency. So far no new frequencies have been reported.

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::: 2-SECOND PIP

We learn from Takashi that the 2-second pip can be heard on
3115//5455//8340 kHz at 1253 UTC (5 May).
8340//10470//14425 kHz at 0437 UTC (5 May).
3115//5455//8940 kHz at 1337 UTC (16 May).

<<<<<>>>>>

::: 3 PIPS

One of the other pip-stations is the one that transmits 3 pips every 2 seconds (90 pips per minute). Nota that this station transmits a data burst every now and then. I asked Takashi to keep an ear open for this station and he told me that he has copied the station on:

10071.5 kHz at 0113 UTC.
10071.5 kHz at 0908 UTC.
10071.5/17031.5 kHz at 0915 UTC.
3066.5 kHz at 1256 UTC.
3066.5//10071.5//17031.51 kHz at 1414 UTC.

Thanks Takashi san!

<<<<<>>>>>

::: XDZ

An unid station transmits VVV DE XDZ on 3555 kHz. The station was heard throughout April around 1400 UTC.

<<<<<>>>>>

::: UNID

The following unid was observed by Fritz. This curious station appeared on at least 7 different frequencies during the past months.

Freq.	date	UTC	remarks
-----	-----	-----	-----
4200	26-4	1905	CQ CQ nw 84045 aa 93507 aa 90650 aa ... QSL 159 k

5504	often		... 5FG aa 5FG aa 5FG aa
6812	3-5	1845	CQ CQ nw nw 44220 aa 55308 aa 10575 aa ... k k
6825	15-3	1600	...5FG aa 5FG aa ...
7697	5-4	0515	...5FG aa 5FG aa ...
13066	3-5	0622	...5FG aa 5FG aa ...
13426	4-4	0700	...5FG aa 5FG aa ...

<<<<<>>>>

::: IGAE

Our correspondent from Alaska, Attu, reports and unid station on 3698 kHz that transmits the callsign: IGAE in CW from H+10-H+20 and H+40-H+50 each hour. Takashi reports the same station on 3699.5 kHz. Which one is the exact frequency, gentlemen?

-0-0-0-0-0-0-0-0-0-0-

* MILITARY STATIONS *

::: RUSSIAN / CIS MILITARY

Frequency	QSO	Callsigns / remarks
18.1		RDL: Russian Military Via Krasnodar VLF
3531		REA4: Russian AF HQ Moscow //4357//7959 kHz
3548		RDL
3829		DOK4, 5EFC
3832	4051	NBGY, P11Q, L5NM
3835		LDBO, HL2V
3844		S9CV, WWP5, XJWB, WEXR, 7A10
3889		SBU2, QQQ5, I4NZ, YZWZ, OX9Q, Z6MP, VSD9, 4SGA
4051	3832	HXMY, DRH2, V3V9, L5NM, MISG, NBGY, VYMP, P11Q, TU9D, 4HAA, ZFNV, MRDS
4357		REA4: AF HQ Moscow //3531//7959 kHz
4456		4IC5, 4RSL, VSD9, LZTR, AXVX
4479		SKJF, NH3J
5476		7AFF, 2IQI
6870		OCF1, TGLU
6873		RMP, Kaliningrad; Baltic sea wx forecast, nav & coastal warnings
6874		TDXN, OCF1, HR1V
6880		CIS mil aero net. Callsigns noted: Schit-44, Plafon-86, Obninsk-Approach. Radio checks and messages (see below)
6882		5R4T, TYL9
6956		8KY8, G1JT, A3SY
7018		RIW: Russian Navy HQ Moscow, clg RJF94 (Naval Air Transport, Central Sector control station Moscow) and

	RJC66
7041	8PZS, 3NY6, ZVLJ, NB2W, OPVD, 5TOB, ZRI1, XBDT, 2PVD, 8W6I, 7GIX, JHXR
7056	IA4R, OSLK, 1PAS, SZ3H, LAZY, XXH2
7959	REA4: AF HQ Moscow //3531//4357 kHz
8646	REA4: Russian Air Force HQ Moscow //13479 kHz
10278	Ukrainian Army, Iraq. Phone patches
10280	Ukrainian Army, probably located in Iraq. Phone patches
11136	JVQZ
13479	REA4: Russian Air Force HQ Moscow //8646 kHz
13852	DQZ8, 6OI1
14299.6	RDL

Alf's comments on his RIW log: "RIW is calling RJF94 and RJC66 for QSA? RJF94 is reported to be the Central Sector Control Station of Russian Naval Air Transport, Moscow. He is often reported on 8817 kHz in CW working with Russian naval air transport aircraft. Other players on this simplex net are RCB, RCH84, RJC38 and RJC48. The RJC prefix is (only?) used by Naval Air Transport, Sector Control ground stations. First time I saw RIW (Navy HQ Moscow) working Naval Air Transport Sector Control stations!"

Samples of the traffic heard on 6880 kHz.

Many 10-counts and messages:

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1208 UTC: 00 70 19 55 4 93 76 08 60
          70 19 66 4 93 76 for 16.08
          517 70 19 91 70 700
1210 UTC: 19 66 4 93 74 for 10
1211 UTC: 70 19 66 4 93 97 13 336 70 19th
1213 UTC: 70 19 66 4 93 98 1 13
          517 70 19 61 70 700
1214 UTC: 70 19 66 4 93 6 91st 14 1
1215 UTC: 70 19 66 4 93 in 29th lower for 15
1216 UTC: 70 19 66 4 93 in 29th upper 16 1
1217 UTC: 70 19 66 4 93 in 22nd for 17 1
1218 UTC: 70 19 66 4 63 in 65th 18 1
1219 UTC: 70 19 66 4 63 in 64th 19 1
          517 70 19 61 70 600
1220 UTC: 70 19 66 4 63 in 64th 20 1
1221 UTC: 70 19 66 4 63 in 64th 21 1
1222 UTC: 70 19 66 4 63 in 63rd 22 1
1223 UTC: 192 70 19

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Note that the last 2-digit group is a time indicator (minutes)

<<<<<>>>>>

::: POLISH MILITARY

7803 kHz Polish forces at unid location. QSX 10555 kHz
20692 kHz c/s LCR155, SPF219 (loc. possibly Syria). Phone patch.
23462 kHz Elektra 19, Prawo 47, Handel 98, Pedzel 44. Radio checks.

-0-0-0-0-0-0-0-0-0-0-

★ FUN SECTION ★

::: WBNY

WBNY, the voice of the Rodent Revolution with Commander Bunny was active again on 6950 kHz. I have seen reports of the transmissions on 4 and 10 April.

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::: WBNY LOOK-ALIKE

An unid station has been on the air for a while. The first reports came in on May 9th and the last on the 17th. The kind of messages are very similar to those on WBNY. Look at this WBNY message and compare it to example #3. The same station perhaps???

"APE HUMANS MUST BE STOPPED. AL FANSOME CHECK TIRE PRESSURE.
RODENTS RULE. YOU ARE WASTING YOUR TIME TRYING TO DECODE THIS.
STUPID HUMAN RODENT REVOLUTION WILL WIN. GO **** YOURSELF."

Frequencies: 6850, 6855, 6875 and 6909 kHz.
Male and female voices with numbers transmissions and coded messages.

Sample messages:

- 1) "This transmission by authority of Papa Oscar Tango Uniform Siera
The Potomac River is at high tide.
Attention all operatives, next transmission on frequency 2 28B W.
The Potomac River is at high tide.
6 14 7 20 10 3 23 14 20 17 18 (repeated 3x)"
- 2) "Attention all operatives, this is a Bravo Siera message.
9 20 1 11 12 18 18 4 19 18 19 5 8 17 14 9 8 13 19 (repeated 3x)
23 14 20 1 14 13 3 8 23 1 14 17 14 14 18 (repeated 3x)
The Mississippi River runs south.
Next transmission on frequency Zulu."
- 3) "Be afraid, Fansome. Be very afraid. This is no joke. Check your
tire pressure, monkeyboy. Check your tire pressure, Fansome. Check

it now."

- 4) "Attention all operatives, this is a Bravo Siere message.
(numbers message)
The water is warm in Miami tonight."

<<<<<>>>>>

::: HWK7/CUA43/CUA69

I told you last month that the religious CW pirate from Loreto, Italy, has changed his callsign to CUA43/CUA69. The callsigns belong to the former Portuguese station "Companhia Portuguesa Radio Marconi".

On 21-5 however, he was back with his old fake Vatican callsign HWK7.

Frequency: 6998 kHz.

"vvv de CUA43/CUA69 -= nr.133/la --- 08905/2004 -=
poco fa ho sentito a radio maria il padre livio che
vorrei sentir sempre. ..."

"vvv de HWK7 +" (repeated)

<<<<<>>>>>

::: COMMANDO SOLO

Not a pirate but an official US clandestine: Radio/TV Marti aired from an aircraft.

"The United States will use airplanes to broadcast anti-Castro programs into Cuba to improve reception on the communist-ruled island, the White House said." This news item appeared in the newspapers on May 6th.

So, Commando Solo will fly again. This time to air the Radio and TV Marti programs into Cuba on a regular basis.

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE PROFILE: GREECE *

::: BACKGROUND

Greece achieved its independence from the Ottoman Empire in 1829. During the second half of the 19th century and the first half of the 20th century, it gradually added neighboring islands and territories, most with Greek-speaking populations. Following the defeat of Communist rebels in 1949, Greece joined NATO in 1952. A military dictatorship,

which in 1967 suspended many political liberties and forced the king to flee the country, lasted seven years. Democratic elections in 1974 and a referendum created a parliamentary republic and abolished the monarchy; Greece joined the European Community (now EU) in 1981.

::: GENERAL

Country name: Hellenic Republic (Greece)
Local name : Elliniki Dhimokratia (Ellas)
Capital : Athens

Administrative divisions: 51 prefectures (nomoi, singular - nomos);
Achaia, Aitolia kai Akarmania, Argolis, Arkadia, Arta, Attiki,
Chalkidiki, Chanion, Chios, Dodekanisos, Drama, Evros, Evrytania,
Evvoia, Florina, Fokidos, Fthiotis, Grevena, Ileia, Imathia, Ioannina,
Irakleion, Karditsa, Kastoria, Kavala, Kefallinia, Kerkyra, Kilgis,
Korinthia, Kozani, Kyklades, Lakonia, Larisa, Lasithi, Lefkas, Lesvos,
Magnisia, Messinia, Pella, Pieria, Preveza, Rethynnis, Rodopi, Samos,
Serrai, Thesprotia, Thessaloniki, Trikala, Voiotia, Xanthi, Zakynthos
and 1 autonomous region; Agion Oros (Mt. Athos)

::: MILITARY BRANCHES

Hellenic Army, Hellenic Navy, Hellenic Air Force, Police, National Guard

::: INTELLIGENCE

Kentriki Ypiresia Pliroforion (KYP)
Ethniki Ypiresia Pliroforion (EYP)
Military Intelligence
Intelligence Council
Joint Steering Committee
Foreign Affairs and Defense Government Council (KYSEA)
Special Security Group
Special Forces

::: KENTRIKI YPIRESIA PLIROFORION (KYP)

Central Intelligence Service

ETHNIKI YPIRESIA PLIROFORION (EYP)

National Intelligence Service

The Kentriki Ypiresia Pliroforion (KYP) was established under Article 1 of Legislative Decree 2421/1953. Law #1645/1986 meant the end of the KYP and a new agency, the Ethniki Ypiresia Pliroforion (EYP) was established in 1986. A reorganization in 2000 re-shuffled the powers of the EYP and the 400 police officers who were part of the EYP were gradually removed to the National Police. A further change was the removal of the military intelligence tasks from the EYP. The military intelligence tasks were transferred to the YEETHA (Armed Forces General Staff) which has formed

a military intelligence unit under the Second Branch of the General Staff.

Head of the EYP is the Director General. Several people report directly to him; the Deputy Director A, Deputy Director B, the legal advisor and the heads of the Security department, Audit department and Directorate B.

The heads of Directorates A, C, D, E and the Regional Support Units, all report to Deputy Director A. The heads of Directorates F, G, H, report to Deputy Director B.

DIRECTOR GENERAL.

Head of the EYP and the Prime Minister's security advisor.

DIRECTORATE B.

Directorate B coordinates the collaboration between the EYP and foreign intelligence agencies. The directorate is also responsible for education, training and the contacts with bodies like the Intelligence Council and the Joint Steering Committee.

DEPUTY DIRECTOR A.

Second in command of the operational sector and head of Directorates A, C, D, E and of the RSU -the Regional Support Units.

DIRECTORATE A.

Responsible for planning and guiding intelligence collection abroad.

DIRECTORATE C.

This directorate collects, processes and disseminates intelligence with regards to terrorism, traffic in drugs, arms, ammunitions, nuclear weapons, explosive materials, money laundering, illegal immigrants, etc.

DIRECTORATE D.

Directorate D processes/analyses the collected intelligence.

DIRECTORATE E.

This is the SIGINT/ELINT branch of the EYP, also responsible for EYP's telecommunications and coding and decoding.

REGIONAL SUPPORT UNITS.

The RSUs are agencies and bodies established in various regions of the country and abroad.

DEPUTY DIRECTOR B.

Second in command of the Administrative, Financial and Technical Sectors and head of Directorates F, G and H.

DIRECTORATE F.

Technical, secretarial and computer-aided support.

DIRECTORATE G.

Personnel department.

DIRECTORATE H.

Logistic support.

The EYP co-operates with other Greek agencies, such as:

- The Directorate of State Security under the Minister of Public Order.
- The Intelligence Offices and General Staff of the Armed Forces.
- The D.A.E.E.B., a special crime fighting directorate, of the Hellenic Police.
- The SDOE (Economic Crime Prosecution Agency)

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::: SPECIAL SECURITY GROUP

Formed in 1976, this special unit of the National Police has counter terrorist responsibilities. The group has also a seaborne unit.

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::: MILITARY INTELLIGENCE

The "A2" Military Intelligence Unit operates under the responsibility of the Ministry of National Defense and handles military intelligence collection and counter-intelligence.

In 2000, YEETHA (Armed Forces General Staff), established an independent information collection and processing service which operates under the Second Branch of the General Staff. The new service has planned to use AWACS and UAV's to fulfill its tasks.

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::: SPECIAL FORCES

Ediko Tmima Alexiptotiston (ETA) is Greek's primary Special Forces unit. ETA is a highly secret organisation that specializes in direct action raids, sabotage missions, reconnaissance and intelligence gathering. Its main theater is Cyprus and the Turkish border region. According to unconfirmed sources, ETA's A Commando and E Commando are based in Thrace, the B Commando and D Commando are based in Macedonia, C Commando and the 13th Commando Counter-Terrorist Regiment are based

in Athens.

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::: INTELLIGENCE COUNCIL

The following description was derived from Law 1645:

1. An Intelligence Council will operate within the EYP, whereof the powers and manner of operation will be specified according to Article 4 (= Statute of Law 1645)
2. The following persons will participate in the Intelligence Council:
 - a. The EYP's Director General as Chairman.
 - b. The Director of the Security Sector of the Ministry of Public Order.
 - c. The Director of the 2nd Joint Staff Group of the National Defence General Staff.
 - d. One representative of the Ministry of Foreign Affairs being appointed, along with his substitute, by the Foreign Minister.
 - e. Up to two persons being appointed along with an equal number of substitutes by the Prime Minister according to the nature of the issues being discussed.
3. The Chairman and the members of the Intelligence Council referred to in sub-paragraphs b and c of paragraph 2 will be substituted for by their lawful substitutes.
4. In the Intelligence Council will be entitled to participate without a right to vote, following an invitation by the Chairman, representatives of other public agencies or legal entities belonging to the public sector.

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::: JOINT STEERING COMMITTEE

Established in 1992 to coordinate the activities of the EYP and to oversee the coordination between the EYP and other government bodies.

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::: FOREIGN AFFAIRS AND DEFENSE GOVERNMENT COUNCIL (KYSEA)

Successor to the National Security Council and established in 1986. KYSEA sets the guidelines on general security and public policy issues.

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Sources / background info:

- The official website of the EYP <http://www.nis.gr/>

- Articles in the Kathimerini newspaper
- Greek Law 1645
- CIA World Factbook 2003
- Brassey's Intelligence Yearbook 2002
- Espionage, an encyclopedia of spies and secrets

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★ LOGS SECTION ★

2800	M22	4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
3025.0	M08a	ID 54503 53011 90381 (AR=OE, BT=K) CW 1-5-2004 Sat 1000 (MS)
3150.0	E10	PCD 94 IPOBS USB 4-5-2004 Tue 2330 (BS4)
3150.0	E10	PCD in tfc USB 5-5-2004 Wed 0300 (BS4)
3244.0	M08a	ID 90063 27283 39033 (AR=OE, BT=K) CW 1-5-2004 Sat 1000 (MS)
3245.0	V02a	USB 24-5-2004 Mon 0500 (ZW)
3292.0	V02a	V2a, strong/readable, ID is 01533 63793 09091 USB 4-5-2004 Tue 0200 (CrA-1)
3330	M89	V MW3D MW3D MW3D DE 2SLC 2SLC //4440 kHz CW 5-5-2004 1300 (TY)
3330	M89	V MW3D MW3D MW3D DE 2SLC 2SLC //4440 kHz CW 1-6-2004 1116 (TY)
3336.2	MX	Channel marker "L" CW 2-5-2004 Sun 1913 (AB)
3389.0	V02a	USB 25-5-2004 Tue 0500 (ZW)
3485	M62	j7xd j7xd j7xd = d3qk d3qk d3qk + CW 10-5-2004 Wed 1930 (AB)
3546.4	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 6-1-2004 0005 (IARUMS)
3552.8	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 11-1-2004 1626 (IARUMS)
3553.2	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 23-1-2004 0020 (IARUMS)
3658	MX	Channel marker "V" CW 3-5-2004 Mon 1939 (AB)
3756	S30	Pip CW 2-5-2004 Sun 1916 (AB)
3828.9	XSW	Squeaky Wheel channel marker 2-5-2004 Sun 1920 (AB)
3926.0	M08a	(blocked by voice, no copy) CW 2-5-2004 Sun 1000 (MS)
3926.0	M08a	ID 45632 44711 65..2 (AR=OE, BT=K) CW 9-5-2004 Sun 1000 (MS)
4015.0	E10	VLB2//5230 USB 15-5-2004 Sat 0045 (BS4)
4017.0	V02a	V2a, weak/mostly unheard, into message USB 18-5-2004 Tue 0300 (CrA-1)
4027.0	M08a	CW 18-5-2004 Tue 0300 (ZW)
4028.0	V02a	Same numbers again USB 7-5-2004 Fri 0500 (ZW)
4028.0	V02a	10 second pause at 0512Z - male voice in background - then resumed USB 14-5-2004 Fri 0500 (ZW)

4028.0	V02a	V2a, strong/readable, i/p USB 22-5-2004 Sat 0300
4035.0	V02a	(in progress) (YL/SS) USB 1-5-2004 Sat 1000 (MS)
4165.0	E10	MIW2//5339 USB 15-5-2004 Sat 0115 (BS4)
4241	M22	4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
4270	E10	PCD 1 AM 22-5-2004 Sat 2000 (AB)
4325.8	MX	Channel marker "R" CW 2-5-2004 Sun 1918 (AB)
4331	M22	4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
4391	M21	Russian Air Defense. =99t146??t????? CW 5-5-2004 Wed 2146 (AB)
4418	E10	FDU 1 AM 30-5-2004 Sun 2105 (AB)
4440	M89	V MW3D MW3D MW3D DE 2SLC 2SLC //3330 kHz CW 5-5-2004 1300 (TY)
4440	M89	V MW3D MW3D MW3D DE 2SLC 2SLC //3330 kHz CW 1-6-2004 1116 (TY)
4440	M89	V MW3D MW3D MW3D DE 2SLC 2SLC CW 1-6-2004 1300 (DJ)
4461.0	E10	FTJ in tfc USB 4-5-2004 Tue 2330 (BS4)
4461.0	E10	FTJ 28 QOWDG USB 7-5-2004 Fri 0100 (BS4)
4461.0	E10	FTJ 54 SGTQD USB 8-5-2004 Sat 2330 (GG)
4461.0	E10	FTJ 14 HZIZF USB 14-5-2004 Fri 0100 (BS4)
4461.0	E10	FTJ 14 HZIZF USB 15-5-2004 Sat 0100 (BS4)
4461.0	E10	FTJ 19 NVQEH AM 15-5-2004 Sat 2200 (JS3)
4479.0	V02a	Same numbers as at 0300 USB 7-5-2004 Fri 0400 (ZW)
4479.0	V02a	USB 14-5-2004 Fri 0400 (ZW)
4503	M18	Time strings UTC+3 CW 15-5-2004 1345 (TY)
4503	M18	Time strings UTC+3 CW 18-5-2004 Tue 2023 (AB)
4503	M18	Time strings UTC+3 CW 25-5-2004 1423 (TY)
4560.0	E10	YHF2 USB 3-5-2004 Mon 0230 (BS4)
4625	S28	Buzzer 2-5-2004 Sun 1915 (AB)
4648.0	E10	CI02//6912 USB 15-5-2004 Sat 0045 (BS4)
4700	M82	in progress CW 24-5-2004 1204 (TY)
4700	M82	VVV JVG DE BML CW 25-5-2004 1359 (TY)
4778.0	M08a	i/p CW 4-5-2004 Tue 1114 (BM)
4880.0	E10	ULX 29 AONZA USB 3-5-2004 Mon 0230 (BS4)
4880.0	E10	ART2, normal RF for ULX USB 4-5-2004 Tue 2330 (BS4)
4880.0	E10	ULX2 USB 14-5-2004 Fri 0030 (BS4)
4880.0	E10	ULX2 USB 15-5-2004 Sat 0030 (BS4)
4880.0	E10	ULX2 USB 29-5-2004 Sat 0200 (BS4)
4905.0	M01	025-923/34=00819 CW 4-5-2004 Tue 2000 (HFD)
5091	E10	CIO K160045P50045 AM 22-5-2004 Sat 2150 (AB)
5091.0	E10	JSR 8 ?IGA? USB 12-5-2004 Wed 0330 (BS4)
5111	MX	Channel marker "P" + FSK data CW 6-5-2004 1636 (BR)
5154.2	MX	Cluster beacon "F" CW 8-5-2004 1559 (TI)
5154.3	MX	Cluster beacon "K" CW 8-5-2004 1559 (TI)
5159	M22	4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
5170	E10	SYN 92Z52Z1005B55 AM 3-5-2004 Mon 1905 (AB)

5170 E10 SYN A41050700 AM 4-5-2004 Tue 1916 (AB)
5170.0 E10 SYN2//6930 USB 15-5-2004 Sat 0045 (BS4)
5170.0 E10a SYN 92Z52Z1005B55 USB 3-5-2004 Mon 1951 (GG)
5170.0 E10a SYN A41050700 USB 4-5-2004 Tue 1946 (GG)
5230.0 E10 VLB2//4015 USB 15-5-2004 Sat 0045 (BS4)
5230.0 E10 Severe QRN here USB 18-5-2004 Tue 0145 (ZW)
5280.0 M01 025-###/30=42675 CW 4-5-2004 Tue 1800 (HFD)
5339.0 E10 MIW2//4165 USB 15-5-2004 Sat 0115 (BS4)
5435.0 E10 ART2 USB 4-5-2004 Tue 2330 (BS4)
5437.0 E10 ART2 USB 23-5-2004 Sun 0030 (GG)
5437.0 E10 ART2 USB 28-5-2004 Fri 0030 (GG)
5437.0 E10 ART 41 DMBRA USB 29-5-2004 Sat 0030 (GG)
5437.0 E10 ART 54 ZCXR? USB 31-5-2004 Mon 0030 (GG)
5465.8 MX Channel marker "R" CW 2-5-2004 Sun 1918 (AB)
5580 M89 V MW3D MW3D MW3D DE 2SLC 2SLC //7074 kHz CW 1-6-2004
1100 (TY)
5631 M89 V GM3Z GM3Z GM3Z DE PNW9 PNW9 CW 31-5-2004 2018 (TY)
5745.0 S06 624-###/24=26544 AM 4-5-2004 Tue 1800 (HFD)
5820 E10 YHF 1 AM 22-5-2004 Sat 2000 (AB)
5820.0 E10 YHF2//7918, 9202 USB 29-5-2004 Sat 0200 (BS4)
5862 MX Channel marker "P" + FSK data CW 6-5-2004 1636 (BR)
6215 V24 S.Korean YL AM 4-5-2004 1400 (TY)
6215 V24 S.Korean YL AM 4-5-2004 1500 (TY)
6215 V24 S.Korean YL AM 5-5-2004 1500 (TY)
6215 V24 S.Korean YL AM 16-5-2004 1500 (TY)
6215 V24 S.Korean YL with numbers USB 19-5-2004 1400 (TY)
6250.0 XSL slot machine USB 14-5-2004 Fri 1100 (ZW)
6270.0 E10 ULX in tfc USB 4-5-2004 Tue 2300 (BS4)
6270.0 E10 ULX in tfc USB 6-5-2004 Thu 2300 (BS4)
6270.0 E10 ULX2//7760 USB 7-5-2004 Fri 0100 (BS4)
6270.0 E10 ULX2//7760 USB 14-5-2004 Fri 0100 (BS4)
6270.0 E10 ULX2//7760 USB 15-5-2004 Sat 0100 (BS4)
6370 E10 KPA A67T2R2 AM 5-5-2004 1905 (JS3)
6370.0 E10 KPA2 USB 15-5-2004 Sat 0115 (BS4)
6370.0 E10 KPA2 USB 31-5-2004 Mon 1815 (JS3)
6370.0 E10a KPAA67T2R2 USB 5-5-2004 Wed 2039 (GG)
6379 M22 4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219
(TY)
6417.0 XSL slot machine USB 14-5-2004 Fri 1100 (ZW)
6434.0 M01 025 CW 15-5-2004 Sat 1500 (HFD)
6446 XSL Slot machine 16-5-2004 1033 (AJP)
6448 V26 heavily jammed by the slot machine LSB 6-5-2004 1305
6448 V26 YL with Chinese/English numbers/letters //8621 kHz
LSB 31-5-2004 1245 (TY)
6498.0 E10 PCD USB 14-5-2004 Fri 0030 (BS4)
6498.0 E10 PCD2 USB 15-5-2004 Sat 0030 (BS4)
6758.0 S17C 68032 AM 2-5-2004 Sun 1250 (HFD)
6758.0 S17C 58031 AM 10-5-2004 Mon 1250 (HFD)

6758.0 S17C 64044 AM 13-5-2004 Thu 1250 (HFD)
6758.0 S17C 75039 AM 14-5-2004 Fri 1250 (HFD)
6758.0 S17C 72040 AM 15-5-2004 Sat 1250 (HFD)
6758.0 S17C 54054 (?) AM 16-5-2004 Sun 1250 (HFD)
6758.0 S17C 63037 AM 18-5-2004 Tue 1250 (HFD)
6758.0 S17C 76032 AM 25-5-2004 Tue 1250 (HFD)
6758.0 S17C 99032 AM 30-5-2004 Sun 1250 (HFD)
6840.0 E10 EZI2//9130 USB 7-5-2004 Fri 0100 (BS4)
6840.0 E10 EZI in tfc//9130 USB 10-5-2004 Mon 0130 (BS4)
6840.0 E10 EZI2//9130 USB 14-5-2004 Fri 0100 (BS4)
6840.0 E10 EZI2//9130 USB 15-5-2004 Sat 0100 (BS4)
6840.0 E10 EZI2 USB 29-5-2004 Sat 0200 (BS4)
6843 M42 Russian intel. 18FGs Baudot 200.38bd/500Hz 31-5-2004
2025 (LD0)
6855.0 V02a V2a, very weak/mostly unheard, into message USB
17-5-2004 Mon 0300 (CrA-1)
6884.0 G06 842-357/38=65279 AM 27-5-2004 Thu 1830 (HFD)
6912 E10 CI02 and SYN2 mixed AM 2-5-2004 Sun 1854 (AB)
6912 E10 CI0 10 AM 4-5-2004 Tue 1917 (AB)
6912 E10 CI02 AM 5-5-2004 1905 (JS3)
6912 E10 KPA2 AM 6-5-2004 0117 (KK2)
6912 E10 CI0 K160045P50045 AM 22-5-2004 Sat 2150 (AB)
6912.0 E10 CI02//4648 USB 15-5-2004 Sat 0045 (BS4)
6912.0 E10 MIW2 USB 31-5-2004 Mon 1815 (JS3)
6912.0 E10a CI010 USB 4-5-2004 Tue 1943 (GG)
6930 E10 SYN 92Z52Z1005B55 AM 3-5-2004 Mon 1905 (AB)
6930 E10 SYN A41050700 AM 4-5-2004 Tue 1916 (AB)
6930.0 E10 SYN2//5170 USB 15-5-2004 Sat 0045 (BS4)
6930.0 E10a SYN92Z52Z1005B55 USB 3-5-2004 Mon 1949 (GG)
6930.0 E10a SYNA41050700 USB 4-5-2004 Tue 1944 (GG)
6959 E03 LP. Id 51452 USV 3-5-2004 Mon 2200 (AB)
6959 E03 LP. Id 65873 USB 22-5-2004 Sat 2200 (AB)
6986.0 E10 ART 67 PIYIZ USB 28-5-2004 Fri 0400 (BS4)
6986.0 E10 ART USB 31-5-2004 Mon 0400 (BS4)
7000 M89 V CP17 CP17 CP17 DE L9CC L9CC CW 7-2-2004 0005
(IARUMS)
7039.2 MX Cluster beacon "F" CW 8-5-2004 1544 (TI)
7039.2 MX Cluster beacon "F" CW 16-5-2004 1049 (AJP)
7039.2 MX Cluster beacon "F" CW 29-5-2004 0842 (TY)
7039.3 MX Cluster beacon "K" CW 8-5-2004 1544 (TI)
7039.3 MX Cluster beacon "K" CW 16-5-2004 1045 (AJP)
7039.3 MX Cluster beacon "K" CW 29-5-2004 0842 (TY)
7039.4 MX Cluster beacon "M" CW 8-5-2004 1544 (TI)
7039.4 MX Cluster beacon "M" CW 29-5-2004 0842 (TY)
7056.4 M89 V CP17 CP17 CP17 DE L9CC L9CC CW 11-1-2004 1626
(IARUMS)
7058 M89 V CP17 CP17 CP17 DE L9CC L9CC CW 6-1-2004 0005
(IARUMS)

7060.2	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 4-5-2004 2255 (BWD)
7072.8	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 21-1-2004 1414 (IARUMS)
7072.8	M89	V CP17 CP17 CP17 DE L9CC L9CC CW 22-1-2004 0128 (IARUMS)
7074	M89	V MW3D MW3D MW3D DE 2SLC 2SLC //5580 kHz switches to 3330//4440 at 1116 UTC CW 1-6-2004 1100 (TY)
7078.4	MX	Cluster beacon "F". Off frequency?? CW 8-5-2004 1551
7338.0	E03	ID 20494 USB 20-5-2004 Thu 0022 (LC2)
7484.0	M13	CW 20-5-2004 Thu 0022 (LC2)
7512.0	S30	USB 20-5-2004 Thu 0021 (LC2)
7519.0	M08a	ID 49311 51022 65472 (AR=OE, BT=K) CW 7-5-2004 Fri 2200 (MS)
7663.0	E11	232/00 AM 13-5-2004 Thu 0800 (HFD)
7760.0	E10	ULX2//6270 USB 14-5-2004 Fri 0100 (BS4)
7760.0	E10	ULX2//6270 USB 15-5-2004 Sat 0100 (BS4)
7887	E03	LP. Id. 53264 USB 24-5-2004 Mon 2100 (AB)
7914	M42	Russian intel. 17FGs Baudot 200.38bd/500Hz 14-5-2004 2031 (LD0)
7918	E10	in progress AM 3-4-2004 0200 (PK36)
7918.0	E10	5LG, faint but readable. USB 3-5-2004 Mon 0200 (BSW)
7918.0	E10	YHF 52 ZYRSH USB 10-5-2004 Mon 0130 (BS4)
7918.0	E10	YHF 52 ZYRSH USB 15-5-2004 Sat 0130 (BS4)
7918.0	E10	YHF2 USB 18-5-2004 Tue 0130 (ZW)
7918.0	E10	YHF2//5820, 9202 USB 29-5-2004 Sat 0200 (BS4)
8009.0	M08a	Strong but heavy local thunderstorm QRN; ID is 54362 38201 40912 CW 10-5-2004 Mon 2300 (ZW)
8096.0	M08a	CW 24-5-2004 Mon 0500 (ZW)
8103	M22	4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
8136.0	M08a	ID 93942 31623 63713 (AR=OE, BT=K) CW 2-5-2004 Sun 1000 (MS)
8136.0	M08a	ID 30432 98933 37251 (AR=OE, BT=K) CW 9-5-2004 Sun 1000 (MS)
8136.0	V02a	ID 20902 65552 50202 (YL/SS) USB 2-5-2004 Sun 0900
8195	V25	Chinese YL AM 9-5-2004 1300 (TY)
8195	V25	Chinese YL. Ends with "thanks" at 1305 UTC AM 10-5-2004 1300 (TY)
8195	V25	Chinese YL AM 24-5-2004 1300 (TY)
8300	V13	New Star BC. Very weak AM 13-5-2004 0710 (TI)
8313.0	XSL	slot machine USB 14-5-2004 Fri 1100 (ZW)
8495.2	MX	Cluster beacon "F" CW 8-5-2004 1559 (TI)
8495.2	MX	Cluster beacon "F" CW 29-5-2004 0842 (TY)
8495.3	MX	Cluster beacon "K" CW 8-5-2004 1559 (TI)
8495.3	MX	Cluster beacon "K" CW 29-5-2004 0842 (TY)
8495.4	MX	Cluster beacon "M" CW 8-5-2004 1559 (TI)
8495.4	MX	Cluster beacon "M" CW 29-5-2004 0842 (TY)
8588.0	XSL	slot machine USB 10-5-2004 Mon 1330 (ZW)

8588.0 XSL Slot machine I/P at 1350Z; been going strong for hours
USB 11-5-2004 Tue 1130 (ZW)
8588.0 XSL slot machine USB 14-5-2004 Fri 1100 (ZW)
8588.0 XSL slot machine USB 18-5-2004 Tue 1130 (ZW)
8621 V26 Chinese/English YL LSB 6-5-2004 1211 (TI)
8621 V26 YL with Chinese/English numbers/letters //6448 kHz
LSB 31-5-2004 1245 (TY)
8621.0 V26 i/p YL/CC; QRM from globe wireless channel free marker
LSB 4-5-2004 Tue 1146 (BM)
8701 M21 Russian Air Defense. =991033??8????? CW 28-5-2004
0733 (DJ)
8703.5 XSL slot machine USB 14-5-2004 Fri 1100 (ZW)
8805.0 E10 PCD; Weak S3 here USB 27-5-2004 Thu 0430 (ZW)
8870 V25 Chinese YL AM 9-5-2004 1400 (TY)
8870 V25 Chinese YL. 0-message AM 12-5-2004 1602 (TI)
8870 V25 Chinese YL. AM 16-5-2004 1300 (TY)
8870 V25 Chinese YL AM 19-5-2004 1300 (TY)
8870 V25 Chinese YL AM 23-5-2004 1400 (TY)
8870 V25 in progress AM 25-5-2004 1301 (TI)
9062.0 M08a Distorted, multiple signals from 9060 to 9064 CW
13-5-2004 Thu 0400 (ZW)
9062.1 M08a Weak, S2 here CW 27-5-2004 Thu 0400 (ZW)
9073 M42 Russian intel. 18FGs Baudot 200.38bd/500Hz 31-5-2004
1921 (LDO)
9115.0 G06 308:0 AM 3-5-2004 Mon 2000 (HFD)
9119 M42 Russian intel. 17FGs Baudot 200.38bd/500Hz 21-5-2004
1810 (LDO)
9130.0 E10 EZI 94 WPXES//11565 USB 3-5-2004 Mon 0230 (BS4)
9130.0 E10 EZI 34 YAOQB USB 4-5-2004 Tue 2330 (BS4)
9130.0 E10 EZI 162 VMSSM//11565 USB 5-5-2004 Wed 0300 (BS4)
9130.0 E10 EZI 104 MVGL USB 6-5-2004 Thu 2230 (BS4)
9130.0 E10 EZI 34 YAOQB USB 6-5-2004 Thu 2330 (GG)
9130.0 E10 EZI2//6840 USB 7-5-2004 Fri 0100 (BS4)
9130.0 E10 EZI in tfc//6840 USB 10-5-2004 Mon 0130 (BS4)
9130.0 E10 EZI 162 VMSSM USB 10-5-2004 Mon 0300 (BS4)
9130.0 E10 EZI2 USB 10-5-2004 Mon 0330 (BS4)
9130.0 E10 EZI QRM, weak but readable, break at 2155 AM 10-5-2004
Mon 2153 (JN4)
9130.0 E10 EZI 162 VMSSM USB 11-5-2004 Tue 0300 (BS4)
9130.0 E10 Copyable through local QRN USB 11-5-2004 Tue 2230 (ZW)
9130.0 E10 EZI2//6840 USB 14-5-2004 Fri 0100 (BS4)
9130.0 E10 EZI2//6840 USB 15-5-2004 Sat 0100 (BS4)
9130.0 E10 EZI2 USB 17-5-2004 Mon 0300 (BS4)
9130.0 E10 USB 18-5-2004 Tue 0200 (ZW)
9130.0 E10 EZI USB 18-5-2004 Tue 0230 (ZW)
9130.0 E10 EZI USB 18-5-2004 Tue 0300 (ZW)
9130.0 E10 EZI 162 VMSSM//11565 USB 18-5-2004 Tue 0300 (BS4)
9130.0 E10 EZI 162 VMSSM//11565 USB 19-5-2004 Wed 0300 (BS4)

9130.0 E10 EZI 162 VMSSM USB 26-5-2004 Wed 0300 (BS4)
 9130.0 E10 EZI in tfc USB 29-5-2004 Sat 2130 (BS4)
 9130.0 E10 EZI USB 30-5-2004 Sun 2030 (BS4)
 9130.0 E10 EZI 86 QBFFA, repeated 0130z 1 June USB 30-5-2004 Sun 2130 (BS4)
 9130.0 E10 EZI 18 CURF?, 59 NSV?? USB 30-5-2004 Sun 2200 (BS4)
 9130.0 E10 EZI1 AM 31-5-2004 Mon 1830 (JS3)
 9130.0 E10 EZI in progress AM 31-5-2004 Mon 1900 (JS3)
 9152.0 M08a ID 36792 53361 63712 (AR=OE, BT=K) CW 1-5-2004 Sat 1200 (MS)
 9153.0 V02a USB 24-5-2004 Mon 0500 (ZW)
 9153.0 V02a AM 29-5-2004 Sat 0706 (SPA)
 9160.0 E06 504:0 AM 19-5-2004 Wed 2200 (HFD)
 9166.0 S17c USB 20-5-2004 Thu 0021 (LC2)
 9202.0 E10 YHF S4 here USB 27-5-2004 Thu 0430 (ZW)
 9202.0 E10 YHF2//5820, 7918 USB 29-5-2004 Sat 0200 (BS4)
 9202.0 E10 YHF2 USB 30-5-2004 Sun 2030 (BS4)
 9238 M08a in progress CW 19-5-2004 0930 (TY)
 9238.0 M08a ID 93942 31623 63713 (AR=OE, BT=K) CW 2-5-2004 Sun 1100 (MS)
 9238.0 M08a ID 30432 98933 37251 (rpt of 1000z on 8136m) (AR=OE, BT=K) CW 9-5-2004 Sun 1100 (MS)
 9239 V25 Chinese YL. Ends with "thanks" at 1204 UTC AM 10-5-2004 1200 (TY)
 9239 V25 Chinese YL. Ends with "thanks" at 1306 UTC AM 11-5-2004 1300 (TY)
 9239 V25 Chinese YL AM 24-5-2004 1200 (TY)
 9251 E03 LP. Id 65873 USB 22-5-2004 Sat 2200 (AB)
 9251 E03 LP. Id. 53264 USB 24-5-2004 Mon 2100 (AB)
 9251.0 E03 short transmission, AM 10-5-2004 Mon 2145 (JN4)
 9323 M08a in progress CW 18-5-2004 1010 (TY)
 9323 M08a in progress CW 25-5-2004 1034 (TY)
 9323.0 M08a (too weak for copy) (AR=OE, BT=K) CW 1-5-2004 Sat 1000 (MS)
 9323.0 M08a ID 20701 91702 58522 (AR=OE, BT=K) CW 2-5-2004 Sun 0900 (MS)
 9323.0 M08a ID 34902 30423 10633 (AR=OE, BT=K) CW 9-5-2004 Sun 0900 (MS)
 9323.0 V02a USB 6-5-2004 Thu 0400 (ZW)
 9323.0 V02a M8a audible in background USB 13-5-2004 Thu 0400 (ZW)
 9323.0 V02a USB 20-5-2004 Thu 1500 (ZW)
 9323.0 V02a S9+ here USB 27-5-2004 Thu 0400 (ZW)
 9330.0 M08a ID 78182 54943 18913 (AR=OE, BT=K) CW 31-5-2004 Mon 1200 (MS)
 9331 M08a in progress CW 10-5-2004 1210 (TY)
 9331.0 M08a M8a, strong/readable, into message CW 3-5-2004 Mon 1200 (CrA-1)
 9331.0 M08a M8a, strong/readable, i/p CW 14-5-2004 Fri 1200

9331.0 M08a M8a, strong/readable, ID is 86283 84701 33431 CW
 17-5-2004 Mon 1200 (CrA-1)
 10019 V25 Chinese YL. Ends with "thanks" at 1505 UTC AM
 10-5-2004 1500 (TY)
 10019 V25 Chinese YL. AM 12-5-2004 1200 (TY)
 10019 V25 Chinese YL AM 19-5-2004 1200 (TY)
 10046 M22 4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219
 (TY)
 10125.0 M08a ID 30772 09363 92582 (AR=OE, BT=K) CW 1-5-2004 Sat
 0400 (MS)
 10125.0 M08a Overdriven xmtr, multiple signals 10124-10126 CW
 18-5-2004 Tue 0300 (ZW)
 10125.0 M08a M8a, fair/readable, into message CW 18-5-2004 Tue 0300
 (CrA-1)
 10126.0 M08a ID 19803 91701 58521 (AR=OE, BT=K) CW 1-5-2004 Sat
 0900 (MS)
 10126.0 M08a CW 5 group numbers. Good reception. USB 15-5-2004 Sat
 0900 (MT2)
 10230.0 S06 YL, hard to copy, ?3, 2F id? AM 31-5-2004 Mon 1200
 10248 M16 8BY. DGSE CW 1-5-2004 0851 (ML4)
 10345.0 M08a i/p; OE variant; A ----- NUAUN CW 4-5-2004 Tue
 1119 (BM)
 10426.0 E03 strong!, folk song - rpt 51452 - folk song, paralell
 to 11545 7081 AM 10-5-2004 Mon 2200 (JN4)
 10446.0 V02a V2a, very weak/mostly unheard, into message USB
 3-5-2004 Mon 0300 (CrA-1)
 10446.0 V02a V2a, strong/readable, into message USB 17-5-2004 Mon
 0300 (CrA-1)
 10446.0 V02a M8a in background USB 24-5-2004 Mon 0500 (ZW)
 10467 M42 Russian intel. 17FGs Baudot 200.38bd/500Hz 21-5-2004
 0700 (LD0)
 10512.0 XM nonstop AM 4-5-2004 Tue 1515 (HFD)
 10512.0 XM nonstop AM 14-5-2004 Fri 1651 (HFD)
 10512.0 XM "Whale song"; multi tonal xmsn. USB 17-5-2004 Mon 0245
 (MT2)
 10512.0 XM XM, strong/readable, S5 USB 17-5-2004 Mon 0300 (CrA-1)
 10512.0 XM "Whale song"; multi tonal xmsn. Reported to be 24
 hours on the Wor USB 18-5-2004 Tue 0200 (MT2)
 10512.0 XM Whales; very strong here 20 over S9 USB 18-5-2004 Tue
 0345 (ZW)
 10512.0 XM Whales; still at it, 10 dB over S9 here USB 20-5-2004
 Thu 0500 (ZW)
 10512.0 XM Whales; 10 over S9 here USB 25-5-2004 Tue 0500 (ZW)
 10566.0 M08a ID 78182 54943 18913 (AR=OE, BT=K) (rpt of 1200z on
 9330m) CW 31-5-2004 Mon 1300 (MS)
 10648.0 E10 About S2 here with heavy QRN USB 13-5-2004 Thu 0430
 10648.0 E10 S5, rpt msgs USB 22-5-2004 Sat 0018 (JN4)
 10648.0 E10 YHF USB 25-5-2004 Tue 0430 (ZW)

10648.0 E10 YHF S5 here USB 27-5-2004 Thu 0430 (ZW)
10838 M42 Russian Intel RTTY 200.33Bd/500Hz 22-5-2004 Sat 2205
10858.0 M08a ID 26072 20923 91233 (AR=OE, BT=K) CW 1-5-2004 Sat 1200 (MS)
10858.0 M08a M8a, strong/readable, into message CW 4-5-2004 Tue 1200 (CrA-1)
10858.0 M08a M8a, strong/readable, into message CW 6-5-2004 Thu 1200 (CrA-1)
10858.0 M08a M8a, strong/readable, i/p CW 18-5-2004 Tue 1200
10872.2 MX Cluster beacon "F" CW 8-5-2004 1558 (TI)
10872.2 MX Cluster beacon "F" CW 29-5-2004 0842 (TY)
10872.3 MX Cluster beacon "K" CW 8-5-2004 1559 (TI)
10872.3 MX Cluster beacon "K" CW 29-5-2004 0842 (TY)
10872.4 MX Cluster beacon "M" CW 29-5-2004 0842 (TY)
11060.0 E06 504:0 AM 19-5-2004 Wed 2100 (HFD)
11070.0 E06 690:0 AM 16-5-2004 Sun 1830 (HFD)
11130.0 S06 760:0 AM 10-5-2004 Mon 2115 (HFD)
11131.0 S06 nol message ID 760 USB 10-5-2004 Mon 2100 (LC2)
11363.0 XM nonstop AM 14-5-2004 Fri 1650 (HFD)
11430 V13 New Star BC. Very weak AM 11-5-2004 0203 (TI)
11431.0 M08a CW 25-5-2004 Tue 0500 (ZW)
11485.0 G06 308:0 AM 3-5-2004 Mon 1900 (HFD)
11545 E03 LP. Id 24778 USB 2-5-2004 Sun 1900 (AB)
11545 E03 LP. Id 51452 USV 3-5-2004 Mon 2200 (AB)
11545 E03 LP. Id 20494 USB 22-5-2004 Sat 1500 (AB)
11545 E03 LP. Id 40709 USB 22-5-2004 Sat 2000 (AB)
11545 E03 LP. Id 65873 USB 22-5-2004 Sat 2200 (AB)
11545 E03 LP. Id 18198 USB 23-5-2004 Sun 1900 (AB)
11545 E03 LP. Id. 53264 USB 24-5-2004 Mon 2100 (AB)
11545.0 E03 Very clear with occasional RFI pops USB 1-5-2004 Sat 1500 (XSC)
11545.0 E03 QRM, strong!, folk song - rpt 51452 - folk song AM 10-5-2004 Mon 2200 (JN4)
11565.0 E10 EZI 94 WPXES//9130 USB 3-5-2004 Mon 0230 (BS4)
11565.0 E10 EZI 162 VMSSM//9130 USB 5-5-2004 Wed 0300 (BS4)
11565.0 E10 EZI 162 VMSSM//9130 USB 18-5-2004 Tue 0300 (BS4)
11565.0 E10 EZI USB 25-5-2004 Tue 0430 (ZW)
11565.0 M08a CW 13-5-2004 Thu 0400 (ZW)
11565.0 M08a CW 18-5-2004 Tue 0400 (ZW)
11565.0 M08a S9 CW 27-5-2004 Thu 0400 (ZW)
11566.0 V02a Very strong here USB 7-5-2004 Fri 0300 (ZW)
11566.0 V02a (in progress) YL/SS USB 9-5-2004 Sun 1300 (MS)
12093.0 M08a ID 26072 20923 91233 (AR=OE, BT=K) CW 1-5-2004 Sat 1300 (MS)
12165.0 S06 YL, hard to copy, ?3, 2F id? AM 31-5-2004 Mon 1210
12165.0 V02 "Attencion" with 3, 5# groups repeated X4; into 5# groups; ended 00 AM 10-5-2004 Mon 0200 (MT2)
12180.0 V02 Call up X4 at 0150; 0200 Attencion call up X8; into

numbers w/ new AM 12-5-2004 Wed 0150 (MT2)
 12193 M42 Russian intel. 17FGs Baudot 200.38bd/500Hz 21-5-2004 0710 (LDO)
 12203.0 E07 682:1-317/25=21152 AM 17-5-2004 Mon 2040 (HFD)
 12215.0 V02a FALSE START AT 0156, REAL START AT 0158. YL 5 FIGURE GROUPS USB 7-5-2004 Fri 0156 (MT2)
 12215.0 V02a Start call up at 0200; highly variable broadcast strength, very abr USB 14-5-2004 Fri 0200 (MT2)
 12215.0 V02a Data burst at 0149. YL, Spanish, call up & 5 # groups, 000 at end. USB 25-5-2004 Tue 0200 (MT2)
 12603 E03 LP USB 4-5-2004 1400 (TY)
 12603 E03 LP. Id 20494 USB 22-5-2004 Sat 1500 (AB)
 12603.0 E03 Extremely weak but copyable USB 9-5-2004 Sun 1500 (ZW)
 12603.0 E03 S5 signal today USB 11-5-2004 Tue 2200 (ZW)
 12984 M22 4XZ. Israeli navy Haifa. VVV DE 4XZ CW 30-5-2004 2219 (TY)
 13368.0 E07 374:0, weak AM 27-5-2004 Thu 2010 (HFD)
 13375 E03 LP. Id 20494 USB 22-5-2004 Sat 1500 (AB)
 13390.0 S06 760:0 AM 10-5-2004 Mon 2015 (HFD)
 13415.0 XP 0-msg AM 27-5-2004 Thu 2020 (HFD)
 13417.0 XP 0-msg AM 4-5-2004 Tue 2020 (HFD)
 13417.0 XP 0-msg AM 6-5-2004 Thu 2020 (HFD)
 13472.0 E07 941:0 AM 19-5-2004 Wed 1720 (HFD)
 13514 M22 4XZ. Israeli navy Haifa CW 1-5-2004 1625 (ML4)
 13528.2 MX Cluster beacon "F" CW 8-5-2004 1554 (TI)
 13528.2 MX Cluster beacon "F" CW 29-5-2004 0842 (TY)
 13528.3 MX Cluster beacon "K" CW 8-5-2004 1554 (TI)
 13528.3 MX Cluster beacon "K" CW 29-5-2004 0842 (TY)
 13528.4 MX Cluster beacon "M" CW 29-5-2004 0842 (TY)
 13533.0 E10 EZI 94 RCRWS USB 2-5-2004 Sun 1830 (BS4)
 13533.0 E10 EZI in tfc USB 8-5-2004 Sat 2100 (BS4)
 13533.0 E10 EZI USB 28-5-2004 Fri 0400 (BS4)
 13533.0 E10 EZI1 USB 30-5-2004 Sun 1830 (BS4)
 13533.0 E10 EZI 45 E?K?N USB 30-5-2004 Sun 2000 (BS4)
 13872.0 E07 682:0 AM 3-5-2004 Mon 2020 (HFD)
 13872.0 E07 682:1-317/25=21152 AM 17-5-2004 Mon 2020 (HFD)
 14000 E10 SYN2 AM 16-5-2004 1938 (BWD)
 14445 M10 555 828 21 5FGs etc CW 1-6-2004 1945 (MON)
 14487 E03 LP USB 4-5-2004 1400 (TY)
 14487 E03 LP. Id 20494 USB 22-5-2004 Sat 1200 (AB)
 14487 E03 LP. Id 18198 USB 23-5-2004 Sun 1300 (AB)
 14487.0 E03 E3, weak/readable, ID is 23890 USB 3-5-2004 Mon 1200 (CrA-1)
 14487.0 E03 Good signal here USB 9-5-2004 Sun 1400 (ZW)
 14487.0 E03 Weak/readable USB 10-5-2004 Mon 1300 (ZW)
 14487.0 E03 18198 USB 22-5-2004 Sat 1300 (GG)
 14487.0 E03 weak here S2 USB 23-5-2004 Sun 1400 (ZW)
 14598.0 XP 0-msg AM 4-5-2004 Tue 2000 (HFD)

14598.0 XP 0-msg AM 6-5-2004 Thu 2000 (HFD)
 14942.0 E07 941:0 AM 2-5-2004 Sun 1700 (HFD)
 14942.0 E07 941:0 AM 19-5-2004 Wed 1700 (HFD)
 15638.0 E07 682:0 AM 3-5-2004 Mon 2000 (HFD)
 15638.0 E07 682:1-317/25=21152 AM 17-5-2004 Mon 2000 (HFD)
 15682 E03 LP. Id 20494 USB 22-5-2004 Sat 1200 (AB)
 15682 E03 LP. Id 18198 USB 23-5-2004 Sun 1300 (AB)
 15682.0 E03 E3, very weak/mostly unheard, i/p USB 14-5-2004 Fri
 1200 (CrA-1)
 15682.0 E03 18198 USB 22-5-2004 Sat 1300 (GG)
 16020.0 S06 729 AM 26-5-2004 Wed 0710 (HFD)
 16084 E03 LP. Id 20494 USB 22-5-2004 Sat 1200 (AB)
 16084 E03 LP. Id 18198 USB 23-5-2004 Sun 1300 (AB)
 16084.0 E03 18198 USB 22-5-2004 Sat 1300 (GG)
 16163.0 S06 253-671/63=13836 AM 25-5-2004 Tue 1630 (HFD)
 16314 E03 LP USB 4-5-2004 1400 (TY)
 16314.0 E03 USB 25-5-2004 Tue 1400 (ZW)
 16332.2 MX Cluster beacon "F" CW 8-5-2004 1551 (TI)
 16332.2 MX Cluster beacon "F" CW 29-5-2004 0842 (TY)
 16332.3 MX Cluster beacon "K" CW 29-5-2004 0842 (TY)
 16332.4 MX Cluster beacon "M" CW 29-5-2004 0842 (TY)
 18233.0 E03 About S4 here on this freq USB 19-5-2004 Wed 1400 (ZW)
 18864 E04 Cherry Ripe //23461 kHz USB 24-5-2004 1309 (TY)
 19452.0 E03 S7 here on this freq USB 19-5-2004 Wed 1400 (ZW)
 20048.2 MX Cluster beacon "F" CW 29-5-2004 0842 (TY)
 20048.3 MX Cluster beacon "K" CW 29-5-2004 0842 (TY)
 20048.4 MX Cluster beacon "M" CW 8-5-2004 0842 (TY)
 20048.4 MX Cluster beacon "M" CW 29-5-2004 0842 (TY)
 23461 E04 Cherry Ripe //18864 kHz. S/off at 1310 UTC, probably
 because this is not its usual freq USB 24-5-2004 1309

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